

05407260

8.

A supplement according to claim 7 wherein the globulin concentrate is present in a concentration of at least 0.1% by weight.

9.

A supplement according to claim 7 which is substantially purified.

10.

A method of improving weight gain and growth, while decreasing morbidity and mortality in animals comprising: administering a supplement to an animal through the animal's water source, said supplement comprising a water stable globulin concentrate.

11.

A method according to claim 10 wherein the supplement comprises at least 15% IgG.

12.

A method according to claim 10 wherein the supplement is administered to a pig.

13.

A method according to claim 12 wherein the supplement is administered to the pig post-weaning.

14.

A method according to claim 13 wherein the pig is underweight.

15.

A method of manufacturing a globulin supplement for animals comprising:
 separating albumin from plasma to form an albumin precipitate;
 stabilizing the albumin precipitate with an acid;
 separating the albumin precipitate from the plasma to form an albumin fraction and a globulin fraction;
 raising the pH of the globulin fraction until it is non-corrosive;
 adding a phosphate compound or polyethylene glycol to the globulin fraction to precipitate immunoglobulin;
 and
 centrifuging to separate the precipitated immunoglobulin.

16.

A method according to claim 15 wherein the phosphate compound is a polyphosphate.

17.

A method according to claim 15 wherein the phosphate compound is selected from the group consisting of sodium hexametaphosphate, sodium polyphosphate, and potassium polyphosphate.

18.

A method according to claim 15 wherein the acid is hydrochloric acid.

19.

A method according to claim 15 wherein the pH of the solution is lowered to between about 3.5 and 4.5 to precipitate the albumin.

20.

A method according to claim 19 wherein the pH of the solution is lowered to between about 3.9 to 4.0 to precipitate the albumin.

21.

A method according to claim 15 further including the step of drying the globulin precipitate to form a powder.

add
a

SECRET 135707250